

DERWENT ABSTRACT FOR: JP 04-293942 (Mitsubishi), published 19 Oct 1992:

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ACCESSION NUMBER: 1992-394620 [48] WPIINDEX

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TITLE Polyclefin-phenylene ether resin compsn. with high impact strength - contg. copolymer of alkenyl aromatic cpd. and hydrogenated conjugated diene, and halogenated butyl rubber.

DERWENT CLASS: A18 A25

PATENT ASSIGNEE(S): (MITP) MITSUBISHI PETROCHEMICAL CO LTD

COUNTRY COUNT: 1

PATENT INFORMATION:

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APPLICATION DETAILS:

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AB JP 04293942 A UPAB: 19931006

A thermoplastic resin compsn. comprising (A) 10-89 wt. % of an olefin resin, (B) 10-89 wt. % of a phenylene ether resin, (C) 1-50 wt. % of a copolymer contg. (a) a polymer chain comprising an alkenyl aromatic cpd. as a main component and (b) a polymer chain comprising a hydrogenated conjugated diene as a main component in its molecule and (D) 0.1-50 pts. wt. to 100 pts. wt. of (A)+(B)+(C) of a halogenated butyl rubber.

The olefin resin is e.g. crystalline polypropylene or propylene-ethylene copolymer. The phenylene ether resin is e.g. poly(2,6-dimethyl-1,4-phenylene ether). The polymer ether resin is e.g. poly(2,6-dimethyl-1,4-phenylene ether). The polymer chain (a) is e.g. polystyrene. The polymer chain (b) is e.g. hydrogenated polybutadiene. The copolymer of (C) is e.g. a hydrogenated polystyrene-polybutadiene-polystyrene block copolymer (HSBS). The halogenated butyl rubber is e.g. a brominated butyl rubber of BROMOBUTYL 2244 (RTM).

USE/ADVANTAGE: The resin compsn. is used for automobile parts and electrical parts. It has a high impact strength, heat resistance, solvent resistance and a good mouldability and dimensional stability.

In an example, compsn. comprising 42.5 wt. % of a polypropylene resin, 42.5 wt. % of poly(2,6-dimethyl-1,4-phenylene ether), 4.5 wt. % of BROMOBUTYL 2244 and 12.5 wt. % of HSBS had a bending modulus of 13500 kg/mm² and an Izod impact strength of 22.1 kg/cm as opposed to 12500 kg/mm² and 9.0 g/cm², respectively, in a comparative example where BROMOBUTYL 2244 and HSBS were omitted.

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